INPUT				
Frequency				
10 MHz				
Level				
+7 dBm ±6 dB into 50 ohms				
OUTPUT				
Frequency				
240 MHz				
Level				
+13 dBm \pm 2 dB into 50 ohms				
STABILITY				
Aging (free-running)				
1 x 10 ⁻⁶ first year				
after 30 days operating, typical				
5×10^{-7} second year, typical 3×10^{-7} per year thereafter, typical				
2 × 10 ⁻⁷				
3 x 10 per year thereafter, typical				
Output Phase Noise L(f)				
(Free-Running)				
10 Hz -94 dBc/Hz				
100 Hz -126 dBc/Hz				
(Free-Running) 10 Hz -94 dBc/Hz 100 Hz -126 dBc/Hz 1 KHz -150 dBc/Hz				
10 KHZ -168 aBc/HZ				
100 KHz -176 dBc/Hz				
Temperature Stability				
±5 x 10 ⁻⁷ free-running from 0 to +50°C				
(Ref. +25°C)				
Harmonics				
≤ -25 dBc				
Sub-Harmonics				
≤ -60 dBc				
PLL Divider Products				
≤ -60 dBc				
Spurious				
≤ -80 dBc, excluding power				
supply line related spurs				
MECHANICAL				
Dimensions				
4.45 x 4 x 1"				
Connectors				
RF Outputs: SMA(f)				
Power, ET: Feed Thru Terminals				
GND: Ground Turret				
Packaging				
Nickel-plated machined				
aluminum housing – G1P				

Mounting

Threaded inserts on base, #2-56, 6 places

POWER REQUIREMENTS

Warm-Up Power

≤ 13.5 Watts for 5 minutes

Total Power

≤ 9.5 Watts at +25°C

Supply Voltage

+15 VDC ±5%

ADJUSTMENT

Loop BW

Target Bandwidth: < 30 Hz

Type 2 Loop

PHASE LOCK STATUS

Phase Lock Alarm

TTL

Locked: +3.5 VDC to +5.2 VDC (Hi) Out-of-Lock: +0.8 VDC max (Lo)

Phase Lock Voltage Monitor

Electrical tuning monitor pin supplied

CRYSTAL

Type

120 MHz SC-cut (x2)

Label

Use conventional label with the following information:

501-31736 (Current Rev.)

240 MHz GMXO-PLD

+15 VDC

Serial # - Date Code

(Mark connectors with function)

Test Data

Output Level

Phase Noise (free-running)

Temperature Stability (free-running) Harmonics, Subs, Products, Spurious

Power - Warm-up and Total

REV	DATE	REVISION RECORD	DWN	AUTH
-	05-31-18	Initial Release	CB	

G1P MXO Connections			
Connector	Function		
1	Supply Voltage		
2	Ground, Case		
4	RF Output B		
5	Phase Lock Voltage		
6	Phase Lock Alarm		
7	External Reference Input		





